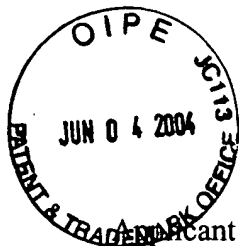


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Attorney's Docket No.: 10448-213001 / MPI01-244P2RCP1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Theresa O'Keefe et al.      Art Unit : 1642  
Serial No. : 10/733,563      Examiner : Unknown  
Filed : December 10, 2003  
Title : HUMANIZED ANTI-CCR2 ANTIBODIES AND METHODS OF USE  
THEREFOR

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 6/2/04

Laurie Butler Lawrence  
Laurie Butler Lawrence  
Reg. No. 46,593

Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906

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	Applicant Theresa O'Keefe et al.		
	Filing Date December 10, 2003	Group Art Unit 1642	

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4816397	Mar., 1989	Boss et al.			
	AB	4816567	Mar., 1989	Cabilly et al.			
	AC	5225539	Jul., 1993	Winter et al.			
	AD	5440021	Aug., 1995	Chuntharapai et al.			
	AE	5543503	Aug., 1996	Chuntharapai et al.			
	AF	5571713	Nov., 1996	Lyle et al.			
	AG	5585089	Dec., 1996	Queen et al.			
	AH	5693761	Dec., 1997	Queen et al.			
	AI	5693762	Dec., 1997	Queen et al.			
	AJ	5707815	Jan., 1998	Charo et al.			
	AK	5859205	Jan., 1999	Adair et al.			
	AL	6084075	Jul., 2000	Lind et al.			

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AM	WO 91/09967	Jul., 1991	WO				
	AN	WO 94/09128	Apr., 1994	WO				
	AO	WO 95/08576	Mar., 1995	WO				
	AP	WO 95/19436	Jul., 1995	WO				
	AQ	WO 97/31949	Sep., 1997	WO				
	AR	WO 98/44953	Oct., 1998	WO				
	AS	WO 99/15666	Apr., 1999	WO				
	AT	WO 00/05265	Feb., 2000	WO				

**Other Documents (include Author, Title, Date, and Place of Publication)**

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	AU	Montecarlo, F.S. and Charo, I.F., "The Amino-terminal Domain of CCR2 Is Both Necessary and Sufficient for High Affinity Binding of Monocyte Chemoattractant Protein 1", The Journal of Biological Chemistry 272(37):23186-23190 (1997).
	AV	Qin, S., et al., "Expression of monocyte chemoattractant protein-1 and interleukin-8 receptors on subsets of T cells: correlation with transendothelial chemotactic potential," Eur. J. Immunol., 26:640-647 (1996).
	AW	Yamagami, S., et al., "cDNA Cloning and Functional Expression of a Human Monocyte Chemoattractant Protein 1 Receptor," Biochemical and Biophysical Research Communications, 202(2):1156-1162 (1994).
	AX	Charo, I.F., et al., "Molecular cloning and functional expression of two monocyte chemoattractant protein 1 receptors reveals alternative splicing of the carboxyl-terminal tails," Proc. Natl. Acad. Sci., USA, 91:2752-2756 (1994).
	AY	Aragay, A.M., et al., "Monocyte chemoattractant protein-1-induced CCR2B receptor desensitization mediated by the G protein-coupled receptor kinase 2," Proc. Natl. Acad. Sci., USA, 95:2985-2990 (1998).
	AZ	Frade, J.M.R., et al., "Characterization of the CCR2 Chemokine Receptor: Functional CCR2 Receptor Expression in B Cells," J. Immunol., 159(11):5576-5584 (1997).
	AAA	Frade, J.M.R., et al., "The Amino-Terminal Domain of the CCR2 Chemokine Receptor Acts as Coreceptor for HIV-1 Infection," J. Clin. Invest., 100(3):497-502 (1997).
	ABB	Wong, L.-M., et al., "Organization and Differential Expression of the Human Monocyte Chemoattractant Protein 1 Receptor Gene," The Journal Biological Chemistry, 272(2):1038-1045 (1997).
	ACC	Kurihara, T. and Bravo, R., "Cloning and Functional Expression of mCCR2, a Murine Receptor for the C-C Chemokines JE and FIC," The Journal of Biological Chemistry, 271(20):11603-11606 (1996).
	ADD	Grimm, M.C., et al., "Enhanced expression and production of monocyte chemoattractant protein-1 in inflammatory bowel disease mucosa," Journal of Leukocyte Biology 59:804-812 (1996).
	AEE	Izikson, L., et al., "Resistance to Experimental Autoimmune Encephalomyelitis in Mice Lacking the CC Chemokine Receptor (CCR)2," J. Exp. Med., 192(7):1075-1080 (2000).
	AFF	Fife, B.T., et al., "CC Chemokine Receptor 2 Is Critical for Induction of Experimental Autoimmune Encephalomyelitis," J. Exp. Med., 192(6):899-905 (2000).

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Other Documents (include Author, Title, Date, and Place of Publication)		
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	AGG	Sanz, I., et al., "Evidence That Autoantibodies Can Be Unmutated Copies of Germline Genes," The Journal of Immunology 142(3):883-887 (1989).
	AHH	Chastangner, P., et al., "Cloning of a gene encoding a lupus-associated human autoantibody V.sub.k region using the polymerase chain reaction an degenerate primers," Gene 101:305-306 (1991).
	AII	Chothia, C., et al., "Conformations of immunoglobulin hypervariable regions," Nature 342:877-883 (1989).
	AJJ	Huston, James S., et al., "Engineered antibodies take center stage", Human Antibodies, 10:127-142 (2001).
	AKK	Reichert, Janice M., "Monoclonal antibodies in the clinic", Nature Biotechnology, 19: 819-822 (2001).
	ALL	Welt, et al., "Targeting CCR-2 or CD18 Inhibits Experimental in-Stent Restenosis in Primates. Inhibitory Potential Depends on Type of Injury and Leukocytes Targeted", Circulation-Journal of the American Heart Association (Abstracts from Scientific Sessions 2000), 102(18): II-247, Abstract 1206 (2000).
	AMM	Paul, Fundamental Immunology, Raven Press NY, Chapter 8, p. 242, 1993.
	ANN	Rudikoff et al., Proc. Natl. Acad. Sci. USA 79:1979, 1982.
	AOO	Forster, R., et al., "A general method for screening mAbs specific for G-protein coupled receptors as exemplified by using epitope tagged BLR1-transfected 293 cells and solid-phase cell ELISA", Biochemical and Biophysical Research Communications, 196(3):1496-1503 (1993).
	APP	Boring, L., et al., "Decreased lesion formation in CCR2-/-mice reveals a role for chemokines in the initiation of atherosclerosis," Nature, 394(27):894-897 (1998).
	AQQ	Yla-Herttuala, S., et al., "Expression of monocyte chemoattractant protein 1 in macrophage-rich areas of human and rabbit atherosclerotic lesions," Proc. Natl. Acad. Sci., USA, 88:5252-5256 (1991).
	ARR	Taubman, M.B., et al., "JE mRNA Accumulates Rapidly in Aortic Injury and in Platelet-Derived Growth Factor-Stimulated Vascular Smooth Muscle Cells," Circulation Research 70(2):314-325 (1992).
	ASS	Feng, A., et al., "Red Wine Inhibits Monocyte Chemotactic Protein-1 Expression and Modestly Reduces Neointimal Hyperplasia After Balloon Injury in Cholesterol-Fed Rabbits," Circulation 100:2254-2259 (1999).
	ATT	Lukacs, N.W., et al., "Production of Monocyte Chemoattractant Protein-1 and Macrophage Inflammatory Protein-1.alpha. by Inflammatory Granuloma Fibroblasts," American Journal of Pathology, 144(4):711-718 (1994).

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	AUU	Koch, A.E., et al., "Enhanced Production of Monocyte Chemoattractant Protein-1 in Rheumatoid Arthritis," The Jour. of Clin. Invest., 90:772-779 (1992).
	AVV	Harigai, M., et al., "Monocyte Chemoattractant Protein-1 (MCP-1) in Inflammatory Joint Diseases and Its Involvement in the Cytokine Network of Rheumatoid Synovium," Clin. Immun. and Immunopathology, 69(1):83-91 (1993).
	AWW	Villiger, P.M., et al., "Production of Monocyte Chemoattractant Protein-1 by Inflamed Synovial Tissue and Cultured Synoviocytes," J. Immunol. 149(2):722-727 (1992).
	AXX	Reinecker, H.C., et al., "Monocyte-Chemoattractant Protein 1 Gene Expression in Intestinal Epithelial Cells and Inflammatory Bowel Disease Mucosa," Gastroenterology, 108(1):40-50 (1995).
	AYY	Nelken, N.A., et al., "Monocyte Chemoattractant Protein-1 in Human Atheromatous Plaques," J. Clin. Invest., 88:1121-1127 (1991).
	AZZ	Grewal, I.S., et al., "Transgenic Monocyte Chemoattractant Protein-1 (MCP-1) in Pancreatic Islets Produces Monocyte-Rich Insulitis Without Diabetes," J. Immunol., 159:401-408 (1997).
	AAAA	Yu, X., et al., "Elevated expression of monocyte chemoattractant protein 1 by vascular smooth muscle cells in hypercholesterolemic primates," Proc. Natl. Acad. Sci., USA, 89:6953-6957 (1992).
	ABBB	Berman, J.W., et al., "Localization of Monocyte Chemoattractant Peptide-1 Expression in the Central Nervous System in Experimental Autoimmune Encephalomyelitis and Trauma in the Rat," J. Immunol., 156:3017-3023 (1996).
	ACCC	Lukacs, N.W., et al., "The Production of Chemotactic Cytokines an Allogenic Response," Amer. Jour. of Pathology, 143(4):1179-1188 (1993).
	ADDD	Christensen, P.J., et al., "Characterization of the Production of Monocyte Chemoattractant Protein-1 and IL-8 in an Allogeneic Immune Response," The Journal of Immunology, 151(3):1205-1213 (1993).
	AEEE	Rand, M.L., et al., "Inhibition of T Cell Recruitment and Cutaneous Delayed-Type Hypersensitivity-Induced Inflammation with Antibodies to Monocyte Chemoattractant Protein-1," Amer. Jour. of Pathology, 148(3):855-864 (1996).
	AFFF	Jones, M.L., and Warren, J.S., "Monocyte Chemoattractant Protein 1 in an Rat Model of Pulmonary Granulomatosis," Laboratory Investigation, 66(4):498-503 (1992).
	AGGG	Lloyd, C.M., et al., "Role of MCP-1 and RANTES in inflammation and progression to fibrosis during murine crescentic nephritis," Journal of Leukocyte Biology, 62:676-680 (1997).

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(37 CFR §1.98(b))			

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	AHHH	Flory, C.M., et al., "Pulmonary Granuloma Formation in the Rat is Partially Dependent on Monocyte Chemoattractant Protein 1," Laboratory Invest., 69(4):396-404 (1993).
	AIII	Jones, M.L., et al., "Potential Role of Monocyte Chemoattractant Protein 1/JE In Monocyte/Macrophage-Dependent IgA Immune Complex Alveolitis in the Rat," J. Immunol., 149(6):2147-2154 (1992).
	AJJJ	Gu, L., et al., "Absence of Monocyte Chemoattractant Protein-1 Reduces Atherosclerosis in Low Density Lipoprotein Receptor-Deficient Mice," Molecular Cell, 2(2):275-281 (1998).
	AKKK	Tesch, G.H., et al., "Monocyte chemoattractant protein-1 promotes macrophage-mediated tubular injury, but not glomerular injury, in nephrotoxic serum nephritis," J. Clin. Invest., 103(1):73-80 (1999).
	ALLL	Lu, B., et al., "Abnormalities in Monocyte Recruitment and Cytokine Expression in Monocyte Chemoattractant Protein 1-deficient Mice," J. Exp. Med., 187(4):601-608 (1998).
	AMMM	Rutledge, B.J., et al., "High Level Monocyte Chemoattractant Protein-1 Expression in Transgenic Mice Increases Their Susceptibility to Intracellular Pathogens," J. Immunol., 155:4838-4843 (1995).
	ANNN	Gunn, M.D., et al., "Monocyte Chemoattractant Protein-1 Is Sufficient for teh Chemotaxis of Monocytes and Lymphocytes in Transgenic Mice but Requires and Additional Stimulus for Inflammatory Activation," J. Immunol., 158:376-383 (1997).
	AOOO	Chensue, S.W., et al., "Role of Monocyte Chemoattractant Protein-1 (MCP-1) in Th1 (Mycobacterial) and Th2 (Schistosomal) Antigen-Induced Granuloma Formation," J. Immunol., 157:4602-4608 (1996).
	APPP	Lukacs, N.W., et al., "Differential Recruitment of Leukocyte Populations and Alteration of Airway Hyperreactivity by C-C Family Chemokines in Allergic Airway Inflammation," J. Immunol., 158:4398-4404 (1997).
	AQQQ	Tang, W.W., et al., "Chemokine Expression in Experimental Tubulointerstitial Nephritis," J. Immunol., 159:870-876 (1997).
	ARRR	Fujinaka, H., et al., "Suppression of Anti-Glomerular Basement Membrane Nephritis by Administration of Anti-Monocyte Chemoattractant Protein-1 Antibody in WKY Rats," Jour. of the Amer. Soc. of Nephrology, 8:1174-1178 (1997).

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	ASSS	Lloyd, C.M., et al., "RANTES and Monocyte Chemoattractant Protein-1 (MCP-1) Play an Important Role in the Inflammatory Phase of Crescentic Nephritis, but Only MCP-1 Is Involved in Crescent Formation and Interstitial Fibrosis," J. of Exp. Med., 185(7):1371-1380 (1997).
	ATTT	Furukawa, Y., et al., "Anti-Monocyte Chemoattractant Protein-1/Monocyte Chemotactic and Activating Factor Antibody Inhibits Neointimal Hyperplasia in Injured Rat Carotid Arteries," Circulation Research, 84:306-314 (1999).
	AUUU	Zisman, D.A., et al., "MCP-1 Protects Mice in Lethal Endotoxemia," J. Clin. Invest., 99(12):2832-2836 (1997).
	AVVV	Schimmer, R.C., et al., "Streptococcal Cell Wall-Induced Arthritis: Requirements for IL-4, IL-10, IFN- $\gamma$ , and Monocyte Chemoattractant Protein-1," J. Immunol., 160:1466-1471 (1998).
	AWWW	Ogata, H., et al., "The Role of Monocyte Chemoattractant Protein-1 (MCP-1) in the Pathogenesis of Collagen-Induced Arthritis in Rats," J. Pathol., 182:106-114 (1997).
	AXXX	Huffnagle, G.B., et al., "The Role of Monocyte Chemotactic Protein-1 (MCP-1) in the Recruitment of Monocytes and CD4 <sup>sup.</sup> T Cells During a Pulmonary Cryptococcus Neoformans Infection," J. Immunol., 155:4790-4797 (1995).
	AYYY	Gong, J., et al., "AN Antagonist of Monocyte Chemoattractant Protein 1 (MCP-1) Inhibits Arthritis in the MRL-1pr Mouse Model," J. Exp. Med., 186(1):131-137 (1997).
	AZZZ	Boring, L., et al., "Impaired Monocyte Migration and Reduced Type 1 (Th1) Cytokine Responses in C-C Chemokine Receptor 2 Knockout Mice," J. Clin. Invest., 100(10):2552-2561 (1997).
	AAAAA	Kuziel, W.A., et al., "Severe reduction in leukocyte adhesion and monocyte extravasation in mice deficient in CC chemokine receptor 2," Proc. Natl. Acad. of Sci., USA 94(22):12053-12058 (1997).
	ABBBB	Kurihara, T., et al., "Defects in Macrophage Recruitment and Host Defense in Mice Lacking the CCR2 Chemokine Receptor," J. Exp. Med., 186(10):1757-1762 (1997).
	ACCCC	Jiang, Y., et al., "Chemokine receptor expression in cultured glia and rat experimental allergic encephalomyelitis," J. Neuroimmunology, 86:1-12 (1998).
	ADDDD	Chuntharapai, et al., "Generation of Monoclonal Antibodies to Chemokine Receptors", Methods in Enzymology 288: 15-27 (1997).

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